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IDEAL NETWORKS

VDV II

Voice, Data and Video
Cable Verifier

SignalTEK® CT

Data Cable
Transmission Tester

SignalTEK® II

Cable and Network
Transmission Tester

NaviTEK® II

Network
Troubleshooter

LanXPLORER® Pro

In-line Network
Tester /Analyzer

LanTEK® II

Cable Certifier

Data Cable & Ethernet

Testers & Certifiers

Proof of Performance

VDV II

The new VDV II Series are easy to use cable testers that check the integrity of copper cables commonly found in domestic, commercial or industrial voice, data or video installations, including telephone wiring, data network and video/security cabling.

Employing state-of-the-art technology, VDV II offers functionality not previously available in a wiremapper. The advanced wiremap engine accurately displays complex wiring faults instantaneously while TDR (Time Domain Reflectometry) aids troubleshooting and improves on-site productivity.

FEATURES & BENEFITS

- RJ45, RJ11/RJ12 and coax ports
- TDR technology pinpoints cable faults eliminating unnecessary guess work
- PoE service detection with voltage information
- Ethernet speed detection up to 1000 Mb/s
- Ability to identify and trace cables with a compatible inductive tone probe (optional)
- Support for all common LAN cables (TIA 568A/B wiring schemes)
- Large backlit screen provides instantaneous, easy to read test results
- Identifies analog (PBX) and digital (ISDN) telephone services
- Displays network rate and duplex information
- Ability to identify a cable on an active network by blinking the switch's link LED
- Protected from high voltage damage

Part No.	Kit Contents
R158000	**VDV II** – Coax, 6 pin (RJ11/12), 8 pin (RJ45) connectors for copper cable testing, wiremap for miswires, split pairs, shorts and opens, analog tone generator, voltage protection, shielded cable testing, single screen results. Includes remote #1 and 9V battery.
R158002	**VDV II Plus**– Includes everything in VDV II as well as large 2.9" screen, back light, hub blink, cable length, distance to open, carry case & cable kit (2 x 15in alligator clips, 2 x 6in RJ45 shielded patch cords, 2 x 4in RJ 11/12 patch cords, 1 x 9in F coax patch cord, 1 x F81 barrel coupler, 1 x BNC female to F male adapter, 1 x RCA female to F female adapter), 1 x wiring reference card.
R158003	**VDV II Pro** – Includes everything in VDV II Plus as well as distance to open / short (TDR), PoE detection with voltage information, digital/analog phone and ISDN detection, hub/switch port blink, Ethernet service detection with connection speed (10/100/1000 Mb/s) and duplex information.
62-164	1 x **IDEAL amplifier probe**

Part No.	Recommended Accessories
158050	Kit of 12 x RJ45 remote units* (#1 - #12)
158051	Kit of 24 x RJ45 remote units* (#1 - #24)
158053	Kit of 12 x coax remote units* (#1 - #12)

* Separate numbered remotes allow multiple cables to be tested more quickly

SignalTEK® CT

SignalTEK CT allows cable installers to generate PDF test reports that prove installed links provide error-free performance at Gigabit speeds using real Ethernet data for absolute certainty.

Data transmission testing is a cost-effective way to prove LAN cabling is installed correctly and is capable of supporting Ethernet applications. By proving real world performance, SignalTEK CT confirms a professional job providing peace of mind and minimizing call-backs.

SignalTEK CT also gives network owners the assurance that installed cabling will support bandwidth hungry services like VoIP, IP CCTV and video streaming following moves, cabling additions and changes.

FEATURES & BENEFITS

- Fast Autotest provides proof of 1000Base-T network performance in seconds
- USB port enables rapid transfer of PDF and CSV (Excel) test results to flash drive
- Supports shielded and unshielded twisted pair cable including Cat 5e, Cat 6, Cat 6A and Cat 7
- Stores up to 5,000 tests in separate folders to accommodate even the largest jobs
- Identify and trace cables with a compatible amplifier probe (62-164)
- Tests against IEEE 802.3ab gigabit Ethernet standard to assure cabling performs to a recognized international standard
- Field replaceable RJ45 contacts eliminate downtime from worn or damaged connectors
- No requirement for annual calibration reducing cost of ownership

Part No.	Kit Contents
R156002	**SignalTEK CT** – Data Cable Transmission Tester. Includes 1 x display, 1 x remote, 2 x NiMH batteries, 2 x patch cables - 30cm, Cat 5e STP, 2 x power supply with EU/UK/US adapters, 1 x user manual, 1 x carry case

Part No.	Recommended Accessories
150058	10 replacement RJ45 inserts with extraction tool
151052	One alkaline battery module to allow operation with 4 AA batteries.
62-164	1 x IDEAL amplifier probe

SignalTEK II®

SignalTEK II tests the performance of voice, data, video and CCTV applications on 10/100/1000 Mb/s Ethernet networks issuing a report to prove installed data cables or networks can carry Ethernet traffic at full speed without packet errors.

SignalTEK II utilizes a method known as transmission testing to prove the performance of a network by sending real Ethernet data frames through the cabling and/or network devices and comparing the received data with the transmitted data to determine the error rate. This method stress tests the network to generate reports of real world 1000Bast-T performance to the IEEE 802.3ab gigabit Ethernet standard.

The capability of running data transmission tests on newly installed cabling and through active Ethernet LANs (i.e. through Ethernet switches) makes SignalTEK II the perfect choice for cabling installers, network administrators, system integrators, CCTV, audio/visual installers or anyone requiring a comprehensive range of testing functions.

Part No.	Kit Contents
R156001	**SignalTEK II FO** kit includes 1 x Near-End unit, fiber ready, 1 x Remote unit fiber ready

Additional content: 2 x Power module (rechargeable), 2 x Mains PSU/ charger, 2 x 12in/30cm RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case

FEATURES & BENEFITS

- Gigabit performance testing on passive cabling and active networks
- Generates test reports to IEEE 802.3ab standard
- Simulates VoIP/CCTV/Web/ IP video network traffic
- Tests connection speed, port ID, ping, trace-route, IPv4/IPv6
- Detect presence of PoE and measure voltage on each pair
- Advanced PoE/PoE+ load testing indicates maximum power (watts) to PoE devices
- Full Gigabit bi-directional load testing through hubs and switches
- RJ45 and SFP fiber optic ports
- Simulate network traffic generated by new IP devices to confirm network capacity before adding new devices like VOIP or CCTV
- Verify connection speed up to 1000 Mb/s
- Ping and trace route tests verify LAN connectivity and Internet access on IPv4 and IPv6 networks
- Locate wiremap faults more quickly and accurately by testing every pin and pair, detecting split pairs and identifying the distance to fault
- Testing complies to the IEEE 802.3ab Gigabit Ethernet standard
- Field replaceable RJ45 contacts eliminate downtime from worn or damaged connectors

LanTEK® II

LanTEK II is used for the certification of twisted pair, coax and fiber optic data cable to ensure full compliance with TIA-568 performance standards. Certification reports may be used to obtain warranties from connector and cabling system manufacturers.

With frequency ranges of 350MHz, 500MHz and 1GHz, LanTEK II is able to certify copper cabling up to Category 7A performance levels.

FEATURES & BENEFITS

- Certification up to 1000 MHz with memory capacity for over 1500 reports
- Perform channel and permanent link tests using same universal measurement adapter
- Quickly test Cat. 6A/ISO Class E_A links in just 17 seconds
- Long life Lithium Ion battery with 18 hour on-site battery life
- Options for Cat 7 (GG45, TERA, EC7), Cat 7A (GG45, TERA, EC7), Coaxial BNC connection, Industrial M12 Ethernet adapter, 10 Gb/s Alien Crosstalk
- 3 models: 350, 500 and 1,000 MHz
- Accuracy Levels III, IIIe and IV
- LanTEK II 350 and 500 upgradeable to LanTEK II 1000

Part No.	Kit Contents
33-991	**LanTEK® II-350** - 350MHz certifier - Cat 6 and lower, includes Cat 6 adapters
33-992	**LanTEK® II-500** - 500MHz certifier - Cat 6A and lower, includes Cat 6A adapters
33-993	**LanTEK® II-1000** - 1000MHz certifier - Cat 7A and lower, includes Cat 6A adapters
TRADE992	Trade in an approved certifier or "qualifier" for a discount on the **LanTEK® II-500**
TRADE993	Trade in an approved certifier or "qualifier" for a discount on the **LanTEK® II-1000**

Combination LanTEK II + FiberTEK FDX combinations also available.

3 year Care Plans available including calibration, repair, loaner tester and warranty extension.

FiberTEK® FDX

The FiberTEK® FDX option allows standards compliant fiber optic certification capability to be added to any LanTEK® II series certifier.

FiberTEK FDX provides fast bi-directional, dual wavelength optical loss (dB) and length measurements meeting Tier 1 certification requirements. Available in multimode (850/1300nm) and single-mode (1310/1550nm) configurations.

FEATURES & BENEFITS

- Attenuation/insertion loss (dB) measurement in both directions
- Certification up to 40 Gb/s
- Real-time power meter aids in troubleshooting
- Field changeable adapters included (SC, ST, FC)
- Certifies fiber optic cable performance to ISO 11801 and TIA 568-C standards
- Meet cabling specifications as required by engineers, designers and clients
- Includes VFF5 laser visual fault locater

Part No.	Kit Contents
33-990-FA01	**FiberTEK® FDX**: Multimode (850/1300nm) kit with LED light sources for OM1 to OM4 multimode fiber
33-990-FA03	**FiberTEK® FDX**: Single-mode (1310/1550nm) kit with laser light sources for single-mode fiber
33-990-FA04	**FiberTEK® FDX**: Combination MM/SM kit with LED MM sources and Laser SM sources

VFF5

The Visual Fault Finder is a visible laser light source used to verify continuity, test and find breaks in fiber links, locate pinched fiber strands in enclosures, or anywhere fiber optic cables are terminated and subject to mechanical damage. The VFF5 is useful to a distance of approximately 5km (3.1mi) into multimode and single-mode fiber. Use it as a front-line troubleshooting tool, or in conjunction with an OTDR to pinpoint faults. Breaks will be seen as a glowing or blinking red lit area.

The VFF5 can also be used when terminating mechanical splices or crimp connectors where leaking light is an indicator of a poor fiber cleave or other misalignment.

FEATURES & BENEFITS

- Visual monitoring of fiber cable continuity
- Pinpoints breaks and crimps through light loss through the buffer
- Detect faulty splices
- Quick on-site checks of pre-terminated fiber cable assemblies
- Continuous and flashing signal modes
- Useful for single-mode and multimode fibers up to 5km (3 miles) length
- Non-roll design rugged metal housing protected by Santoprene® (rubber) non-slip sleeve

Part No.	Kit Contents
VFF5	**VFF5** fiber optic cable continuity tester, fault finder/locator. Includes carry pouch, belt/bag clip and 2 x AA batteries.
135051	**FC to LC adapter**

FiberMASTER

FiberMASTER is a simple and easy to use tester for fast certification and troubleshooting of fiber optic cabling systems, providing optical power loss (dB) measurements meeting Tier 1 certification requirements.

FiberMASTER measures power (dBm/mW) received from any device which aids troubleshooting equipment that may not be operating properly. The dB calibration feature allows the operator to set a reference level to the light source and directly read the loss of fiber optic links for instant certification testing. The unique form factor allows the light source to be docked neatly within the power meter making the kit compact for easy storage while still allowing full operation.

FEATURES & BENEFITS

- Quickly measures cabling loss (dB) with calibration feature
- Measures fiber optic power for troubleshooting
- Power meter: universal 2.5mm slip-fit/FC connectors
- Light source: interchangeable SC/ST/FC connectors
- Multimode and single-mode options
- Power meter features 850, 1300, 1310, 1490 and 1550 nm measurements
- Absolute power measurement in dBm and mW, power loss display in dB
- Auto Power Off
- Multimode kit: 850/1300 nm light source
- Multimode/single-mode kit: 850/1300/1310/1550 nm light source
- Light source docks in the bottom of the power meter for easy storage
- Operates on AAA batteries, 3 each for power meter and light source
- Low battery indication
- Includes padded carry pouch

Part No.	Kit Contents
33-928	**FiberMASTER** - MM/SM power meter with **850nm** MM only light source. Includes soft case, manual and cable kit.
33-931	**FiberMASTER** - MM/SM fiber optic test kit with quad wavelength 850/1300/1310/1550nm light source. Includes soft case, manual and MM/SM cable kit.
135051	**FC to LC adapter** - Order two (2) for use on light source and power meter.

SecuriTEST® Pro

SecuriTEST® Pro is the most versatile all-in-one installation and troubleshooting tool for the CCTV professional. It brings CCTV camera testing to a higher level with integrated IRE testing of sync and video levels to ensure the best possible video quality.

CCTV installers often need to carry a variety of testing tools to complete their work. SecuriTEST Pro combines eight essential tools in one easy-to-carry package: a CCTV video monitor, IRE signal level meter, PTZ camera controller, digital multi-meter, UTP wire map cable tester, video test pattern generator, PTZ protocol analyzer and Camera Programmer in a single compact package.

FEATURES & BENEFITS

- Analog CCTV installation and troubleshooting tool
- Compatible with 20+ PTZ protocols
- Test, aim, focus and program cameras when working alone. Save time by not having to walk back to the control center to verify operation of each camera.
- Sharp, bright 2.5in (6.3cm) color LCD screen with on-screen displays for PTZ control/diagnostics and DMM readouts.
- PTZ protocol analyzer - compatible with 20+ PTZ protocols to test and program cameras in the field, troubleshoot faulty controllers, wiring or cameras.
- Video level, sync and audio testing
- Lithium polymer battery
- Program camera tours and other functions
- Integrated UTP cable tester
- Category I digital multimeter with continuity, AC/DC volts, amperage and resistance modes

Part No.	Kit Contents
33-892	**SecuriTEST Pro** – CCTV tester with carrying pouch, lithium battery pack, 120/240V power adapter/charger, UTP wire map test remote, BNC cord and user manual.
33-892-BP	Replacement lithium polymer battery pack

LanXPLORER Pro

LanXPLORER Pro is an In-line tester for diagnosing problems in active and passive networks. Capabilities include troubleshooting for Ethernet connectivity and identifying faults in copper cables. Networks can be accessed through copper, fiber and Wi-Fi interfaces.

LanXPLORER Pro includes advanced PoE ands PoE+ (802.3at) detection capabilities to measure power available to devices at the end of long runs when troubleshooting. Example, know when only 11 watts of power are available to a device that requires 13 watts. The In-line mode also measures the power consumption of PoE and PoE+ devices in real-time displaying the wattage drawn by the powered device.

LanXPLORER Pro enables monitoring of VoIP calls to measure Quality of Service (QoS) statistics including Real Time Transport Protocol (RTP) and jitter. When placed between any two points in a network, the MAC and IP addresses and name of the top 10 bandwidth consuming devices is displayted to identify sources of network slow-downs. It also displays the external IP address (website) that devices inside the LAN are connected to allowing administrators to identify the source of the traffic, ex., video or music streaming.

Part No.	Kit Contents
R150001	**LanXPLORER Pro** – PREMIUM package includes 1 x LanXPLORER Pro test unit, 1 x Remote unit #1, 1 x High Sensitivity WiFi Antenna, 1 x IDEAL amplifier probe 62-164, 1 x RJ45 insert extraction tool plus 10 x replacement RJ45 inserts *
Additional content: 2 x Power module (rechargeable), 2 x Mains PSU/ charger, 2 x 12in/30cm RJ45 cable, 1 x Quick reference guide (English), 1 x User manual CD, 1 x Carrying case	

FEATURES & BENEFITS

- In-Line feature (RJ45) allows monitoring of network traffic between any two points in the network to diagnose Ethernet issues that cannot be detected by software tools running on a PC or managed switch
- Identifies top 10 band width consuming devices (both transmitting and receiving) on the network to help troubleshooting
- Monitor total network bandwidth throughput
- Identify band width consumed per device
- Voice over IP (VoIP) QoS testing
- Identify MAC and IP address of all devices on network
- Identify sources of network congestion
- Identify new, missing or rogue network devices
- Troubleshoot PoE/PoE+ devices
- Determine cause of VoIP quality issues
- Locate Wi-Fi dead spots
- Determine whether source of network connectivity issue is the LAN or PC/Network device
- Cable installation testing – i.e. wiremap/length/TDR
- Port profiling – check ID and services provided at each port of a switch
- Network auditing – i.e. document devices connected to LAN

NaviTEK® II

NaviTEK II is a versatile network technician's tester for troubleshooting and maintenance of active and passive networks across copper and fiber, helping to pinpoint and solve networking issues quickly. Decreases device downtime by allowing field technicians to discover the root cause of network connectivity issues such as incorrect IP configuration, rouge network services and network bandwidth issues.

FEATURES & BENEFITS

- Detailed network statistics including Protocol, Frame, IP analysis and switch speed 10/100/1000 Mb/s information simplify device configuration and aid troubleshooting
- Determines speed capability of PC and other Network Devices
- Customisable test suite allows you to choose from simple service detection to detailed diagnostics
- Configurable by DHCP or static IP with VLAN capability
- IPv4 and IPv6 compatible
- PBX/ISDN/analog (POTS) – displays type of service and voltage/polarity on each pair
- Network/internet connectivity with Ping/Traceroute to IP address and URL
- Network DNS by resolving URL to IP address
- Netscan counts number of devices on subnet
- Network connectivity- DHCP/CDP/LLDP
- PoE 802.3af service detection
- Test storage and reporting
- Cable tracing/distance to fault (TDR)

Part No.	Kit Contents
R153000	**NaviTEK II Kit:** 1 x NaviTEK II test unit, 1 x Remote unit no. 1*
R151000	**NaviTEK II PLUS Kit:** 1 x NaviTEK II PLUS test unit, 1 x Remote unit no. 1
R151002	**NaviTEK II Pro Kit**: 1 x NaviTEK II Pro test unit, 1 x Remote unit no. 1. See accessories page for SFP fiber optic modules.
Additional content: 2 rechargesble NiMH battery packs, 2 x Patch cables - 12/in30cm, Cat. 5e STP, 1 x Manual on CD, 1 x Quick reference guide, 1 x Carrying case	

Feature	R153000 Basic Model	R151000 Plus Model	R151002 Pro Model
IPv4/IPv6	✓	✓	✓
TDR Fault Finding	✓	✓	✓
802.3af PoE Detection	✓	✓	✓
Test Results Storage		✓	✓
EDP/CDP/LLDP Port ID		✓	✓
VLAN Support		✓	✓
802.1x Security Support			✓
Fiber Optic Ready			✓

Amplifier Probe

Professional quality Amplifier Probe designed to identify and trace wires or cables within a group without damaging the insulation. It allows for pin point identification even in the most congested cable bundles and can be used with any tone generator.

FEATURES & BENEFITS

- Works with any IDEAL Networks tester or standard tone generator to identify wires and ports
- Non-conductive tip prevents short circuits
- Recessed activation button prevents accidental battery drain
- Adjustable volume control
- Powered by 9V battery with low battery indicator

Part No.	Kit Contents
62-164	**Amplifier Probe**
62-160	**Tone Generator**
33-864	**Tone & Probe Kit with padded carry pouch**

Tone Generator

Tone generator injects tracing signal onto any type of wire for cable tracing. Troubleshoot wire and telephone problems with integrated continuity testing and analog telephone polarity indicator.

FEATURES & BENEFITS

- Three selectable tones
- RJ11, F and alligator clip connections
- Three hour auto-off prevents accidental battery drain
- Can be used as power supply to boost volume of talk-sets (butt-sets)
- Powered by 9V battery with low battery indicator

TESTER Options & Accessories

Part No.	Description	Tester Compatibility
SignalTEK II FO / SignalTEK CT / NaviTEK II / LanXPLORER		
MGKSX1	**1000BASE-SX multimode fiber optic option** - Includes one (1) **multimode** 850nm SFP (Small Form factor Pluggable) transceiver, LC/LC and LC/SC duplex multimode cables and SC/SC duplex coupler. **Order 2 for use with SignalTEK II FO.**	SignalTEK II FO NaviTEK II Pro model LanXPLORER Pro
MGKLX2	**1000BASE-LX multimode/single-mode fiber optic option** - Includes one (1) **multimode/single-mode** 1310nm SFP (Small Form factor Pluggable) transceiver, LC/LC and LC/SC duplex single-mode cables and SC/SC duplex coupler. **Order 2 for use with SignalTEK II FO.**	SignalTEK II FO NaviTEK II Pro model LanXPLORER
MGKZX3	**1000BASE-ZX single-mode fiber optic option** - Includes one (1) **single-mode** 1550nm SFP (Small Form factor Pluggable) transceiver, LC/LC and LC/SC duplex single-mode cables and SC/SC duplex coupler. **Order 2 for use with SignalTEK II FO.**	SignalTEK II FO NaviTEK II Pro model LanXPLORER Pro
150058	**RJ45 connector insert kit** - Replace worn or damaged connectors. Eliminates need to send testers in for repair of common wear item. Includes 10 replacement RJ45 inserts, 1 x RJ45 removal tool.	SignalTEK CT SignalTEK II FO NaviTEK II - all models LanXPLORER
150054 150059 150050	**Active wiremap remote ID# 1** - Advanced 2-sided wiremap testing, P/F LED indicator **Active wiremap remote kit ID# 2-6** - Advanced 2-sided wiremap testing, P/F LED indicator **Active wiremap remote kit ID# 2-12** - Advanced 2-sided wiremap testing, P/F LED indicator	SignalTEK CT SignalTEK II FO NaviTEK II - all models LanXPLORER
151051	**Power adapter/battery charger** - with US/UK/Euro plugs. 120-240V, 50/60Hz (each)	SignalTEK CT SignalTEK II FO NaviTEK II - all models LanXPLORER
151052 151053	**AA Battery module** - holds 4 x AA alkaline non-rechargeable batteries, each **Rechargeable NiMH battery pack** - with charging input port, each	SignalTEK CT SignalTEK II FO NaviTEK II - all models
150062 150053	**AA Battery module** - holds 4 x AA alkaline non-rechargeable batteries, each **Rechargeable NiMH battery pack** - Replacement battery pack with plug, each	LanXPLORER
VDV II Series		
158050 158051 158053	**RJ45 Wiremap remote kit ID# 1-12** (provides ID, wiremap test results and length measurement) **RJ45 Identifier kit ID# 1-25** (provides ID and length only) **Coax F connector remote kit ID# 1-12** (ID, wiremap result, length)	VDV II - all models
LanTEK II Series		
LT2-CP-3	**CarePlan for LanTEK II** - Extends total warranty to 3 years, includes annual calibration, free repair with loan tester, and coverage of accessories including batteries, test adapters and cords.	LanTEK II - all models
FDX-CP-3	**CarePlan for FiberTEK FDX modules**. Extends warranty to three years and covers service and calibration. **For one (1) set of modules, i.e. MM or SM.**	LanTEK II - all models
FDX2-CP-3	**CarePlan for FiberTEK FDX modules**. Extends warranty to three years and covers service and calibration. **For two (2) sets of modules, i.e., MM & SM.**	LanTEK II - all models
LANTEK10GBKIT	**Alien crosstalk kit** to test Cat 6 and Cat 6A cabling for 10 Gigabit performance	LanTEK II 500 & 1000
0012-00-0629	**Single Cat 6 RJ45 universal permanent link/channel test adapter**	LanTEK II - all models
0012-00-0656	**Single Cat 6A RJ45 universal permanent link/channel test adapter**	LanTEK II 500 & 1000
1019-00-0343	**Coax testing kit with BNC connectors (2 adapters)**	LanTEK II - all models
1019-00-1105 6011-50-0027	**Siemon TERA® Cat 7/7A testing kit (2 adapters)** - Patch cords not included 2 TERA® Cat 7/7A patch cords	LanTEK II 1000
0012-00-0653 6011-50-0039	**Nexans GG45 Cat 7/7A testing kit (2 adapters)** - Patch cords not included 2 GG45 Cat 7/7A patch cords.	LanTEK II 1000
33-990-BP01	**LanTEK II Lithium Ion battery pack (each)**	LanTEK II - all models
33-990-PS01	**LanTEK II power supply/charger with US/UK/Euro plugs** - 110-240V, 50/60Hz	LanTEK II - all models

IDEAL NETWORKS

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